

## CLAIMS

1. An extraneous matter removing system for a turbine in which turbine blades provided with a moving blade which  
5 rotates together with a rotor and a stator blade which is located on the upstream side of said moving blade and is held on the casing side are housed in a duct, and said moving blade is rotated by a fluid introduced into said duct, wherein

10 said system comprises a pressure gage for detecting the pressure in said duct; a first water injection nozzle which is disposed in said stator blade and is connected to a water supply source via a first valve; and a control unit for regulating the opening of said first valve according to  
15 the pressure detected by said pressure gage, so that extraneous matter adhering to the surface of turbine blade is removed by water injected from said first water injection nozzle.

2. The extraneous matter removing system for a turbine  
20 according to claim 1, wherein said system further comprises means for removing extraneous matter adhering to the surface of said stator blade by injecting water from said first water injection nozzle onto the surface of said stator blade.

3. The extraneous matter removing system for a turbine  
25 according to claim 1, wherein said system further comprises

means for removing extraneous matter adhering to the back surface of said moving blade by injecting water from said first water injection nozzle to the back surface side of said moving blade.

5           4. The extraneous matter removing system for a turbine according to claim 1, wherein said moving blade is subjected to surface reforming to prevent said moving blade from being damaged by water injected from said first water injection nozzle.

10           5. An extraneous matter removing system for a turbine in which turbine blades provided with a moving blade which rotates together with a rotor and a stator blade which is located on the upstream side of said moving blade and is held on the casing side are housed in a duct, and said  
15 moving blade is rotated by a fluid introduced into said duct, wherein

          said system comprises a pressure gage for detecting the pressure in said duct; a second water injection nozzle which is disposed at a position on the upstream side of the  
20 position at which said stator blade is disposed and is connected to a water supply source via a second valve; and a control unit for regulating the opening of said second valve according to the pressure detected by said pressure gage, so that extraneous matter adhering to the surface of turbine  
25 blade is removed by water injected from said second water

injection nozzle.

6. The extraneous matter removing system for a turbine according to claim 2 or 5, wherein said stator blade is subjected to surface reforming to prevent said stator blade  
5 from being damaged by the injected water.